

GOLUBCHIN, S.B.

Flap method in supravaginal hysterectomy. Akush. gin., Moskva No. 1:
28-30 Jan-Feb 52. (CIML 21:4)

1. Docent. 2. Of the Obstetric-Gynecological Clinic (Head--Honored Worker in Science Prof. Gadzhi-Kasimov), Azerbaydzhan Medical Institute.

Microscopic (cytologic) investigation of punctate in ectopic pregnancy. Akush. i gin. no.4:28-31 Jl-Ag '54. (MIRA 7:11) 1. Iz kafedry akusherstva i ginekologii Khabarovskogo meditsinskogo instituta. (PUNCTURES in ectopic pregn., cytol. aspects of punctates) (FREGHANCY, ECTOPIC, diagnosis, cytol. exam. of punctates)

GOLUBCHINA, Mariya Naumoyna; ANISIMKIN, I.P., redaktor; AVERKIYEVA, T.A., tekhnicheskiy redaktor

[Manual on analysis of carbon isotopes by mass spectrometry]
Rukovodstvo po izotopnomu analizu ugleroda na mass-spektrometre.

Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr,
1956. 14 p.

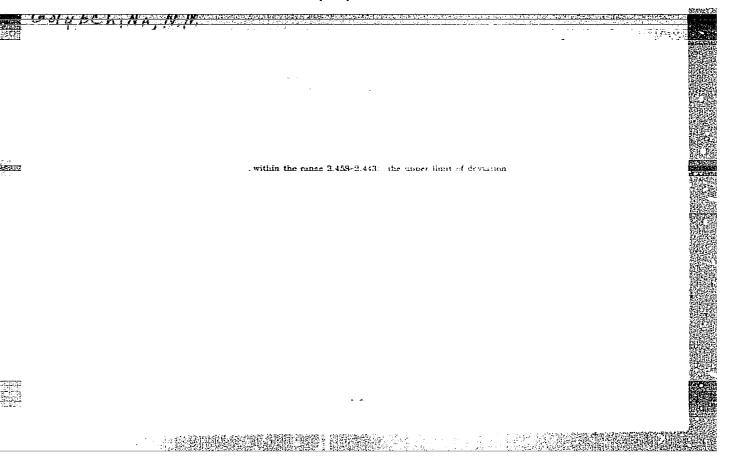
(MIRA 10:2)

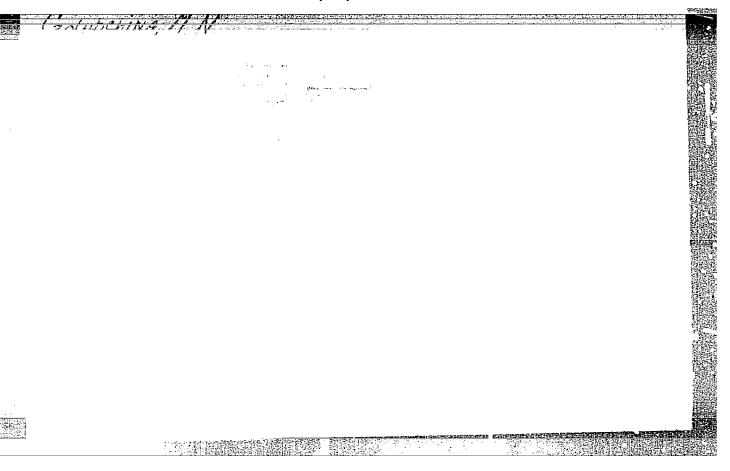
(Mass spectrometry) (Carbon--Isotopes)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910005-5"

GOLUBCHINA, M. N.

"A Manual for Isotopic Analysis of Carbon in a Mass Spectrometer," (Fukovodstvo po Izotopnomu Analizu Ugleroda na Mass-Spektrometre), Moscow: Gosgeoltekhizdat (Government Scientific Technical Publishing Office), 1957, 16 pp.





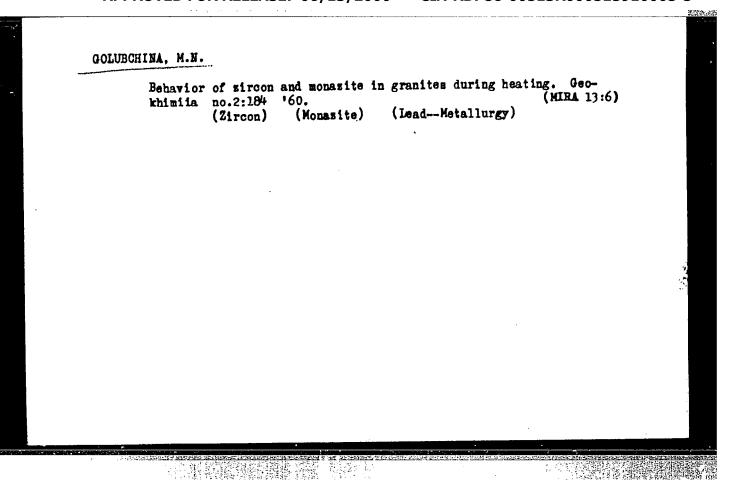
GOLUBCHINA, M.N.; RABINOVICH, A.V.; MURTAZINA, T.M.

Isotopic composition of magmatic rock thallium [with summary in English]. Geokhimiia no.3:191-192 '57. (MLRA 10:7)

1. Vsessyuznyy nauchno-issledovatel'skiy geologicheskiy institut. Leningrad.

(Thallium--Isotopes) (Spectrometry)

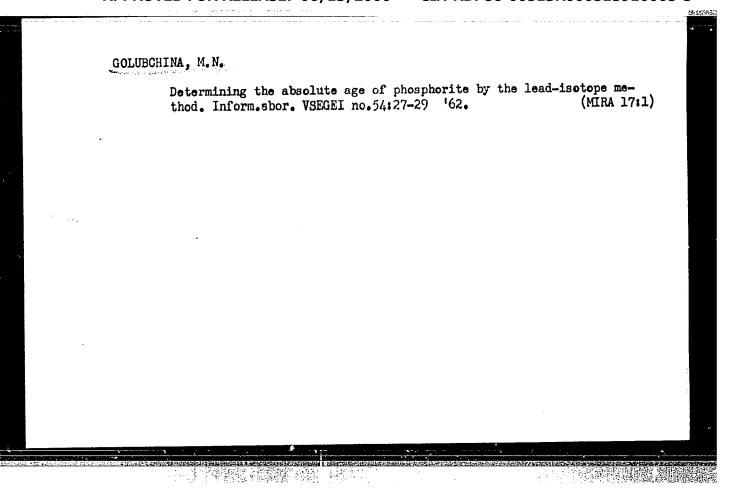
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Isolation of small quantities of lead from rocks and minerals for the determination of isotope compotition. Inform.sbor. VSEGEI no.16:113-119 '59. (Lead--Isotopes)

GOLUBCHINA, M.N.; GUSAKOVA, A.N.

Separation of small quantities of lead from rocks and minerals by the method of sublimation. Inform.sbor. VSEGEI no.54:19-26 '62. (MIRA 17:1)



ZHIDKOV, A.Ya.; MIRKINA, S.L.; GOLUBCHINA, M.N.

Absolute age of alkaline and nepheline syenites of the North Baikal Elevation. Dokl. AN SSSR 149 no.1:152-155 Mr '63.
(MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel skiy geologicheskiy institut. Predstavleno akademikom D.I.Shcherbakovym.
(Baikal Lake region-Syenite)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910005-5"

PABINOVICH, L.V.; GOLUBCHINA, M.N.; MURTAZINA, T.M. [deceased]

irrotope composition of the lead of intrusive rocks in various metallegenic zones of Central Asia. Geokhimiia no.5:519-528 My '65. (MIRA 18:9)

l. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut, Leningrad.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910005-5"

Gonference on the profuction of food acids. Vest. LGU 16 no.3:152153 *61. (Acids, Organic)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910005-5"

CHASTUKHIN, V.Ya.; GONCHAROVA, L.A.; GOLUBCHINA, R.N.

Mass cultures of mycelial fungi for feed protein production [with summary in English]. Mikrobiologiia, 26 no.3:360-366 My-Je '57.

(MIRA 10:10)

1. Leningredskiy tekhnologicheskiy institut pishchevoy promyshlennosti.

(FUNGI IN AGRICULTURE)

(FEEDING AND FEEDING STUFFS)

(DISTILLING INDUSTRIES--BY-PRODUCTS)

GOLUBCHINA, R.N.

Inoculum in submerged cultivation of Aspergillus oryzae for obtaining fodder protein. Vest. LGU 17 no.9:35-42 '62. (MIRA 15:5)

(ASFERGILLUS ORYZAE)

(PROTEINS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910005-5"

GOLUBCOV, V.

TECHNOLOGY

Periodical: PALVIA Vol. 38, no 8, Aug. 1958

GOLUBCOV, V. Power-technical testing equipment in the USSR. p 273

Monthly List of East European Accession (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

CC NR: AR6023338 (A,N) SOURCE CODE: UR/0299/66/000/003/M	032/M032
THOR: Penkov, Ye. Ya.; Golubenko, A. L.	B
TLE: Morphological changes in a homotransplant with deep free	zing
OURCE: Ref zh. Biol, Part II, Abs. 3M196	
EF SOURCE: Sb. Aktuel'n. vopr. kliniki i lecheniya ortopedo-tr ol'nykh. Kiyev, Zdorov'ya, 1965, 270-273	avmatol.
OPIC TAGS: tissue transplant, bone, freezing, morphology	
STRACT: Bone from cadevers frozen at -70° and stored at -30° nvestigated histomorphologically in 3 to 7 days, 2 to 4 weeks, to 7 mos. In 3 mos the bone surface became rough, and in 7 mos acquired a brownish color, cracks appeared, and the odor character of the intercalary laminae; then the empty matrices of the steocytes formed diffuse fields with small groups of staining cases in ing intact near young osteons and the subperiosteal zone. Weeks nonuniform staining was observed in various osteons, the netercalary zones, and periosteal areas; this gave the preparation potty appearance and was most clearly seen in 3 to 4 mos. Staining of the subperiosteal areas;	s the anged. s in the steocytes In 3 to ons a
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sulfa	ated m	ucopolysacchari	des reve	eled their a	bsence in a i	ree state at		
conti	lama.	s of bone store Endosteal and	neriosto	anl cells or	eserved their	uniform		
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KOVBA, L.M.; GOLUBENKO, A.N.

Idthium (V) uranate, Iduo3. Zhur. strukt. khim. 1 no.3:390-392
S-0 '60. (MIRA 14:1)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

(Idthium uranate)

Thermodynamic properties of calcium titanate from electrochemical measurements at elevated temperatures. Zhur. fiz. khim. 38 no.12:2920-2923 D '64. (MIRA 18:2)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova, Khimicheskiy fakul'tet.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910005-5"

	The aim of our life. Sov. profsoiuzy no.17:7 S '61. (MIRA 14:8) 1. Predsedatel' postroykoma tresta "Moszhilstroy", g. Moskva. (Moscow-Housing) (Socialist competition)	
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S/076/60/034/009/021/022 B015/B056

5,4700 also 2209

AUTHORS:

Kuznetsov, F. A., Rezukhina, T. N., and Golubenko, A. N.

TITLE:

Determination of the Formation Heat of Ce203 by the Method

of Combustion in the Bomb Calorimeter

PERIODICAL: Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 9, p. 2129

TEXT: For the purpose of determining the formation enthalpy of Ce_2O_3 , the reaction heat of the reaction $Ce_2O_3 + 1/2 O_2 = 2 CeO_2$ was determined. The Ce_2O_3 was obtained by reduction of CeO_2 in a hydrogen current at $1250-1300^{\circ}C$. The reaction heat of this reaction was determined by the diathermic method by means of a calorimeter (volume of the bomb: 0.04 1), and the experimental results of Ce_2O_3 combustion are given in a table. After the necessary corrections had been made, the value AE_2O_3 = -85.43 ± 0.26 kcal/mole was obtained for the reaction, and, according to (Ref. 3), $AE_2O_3 = -260.18 \pm 0.33$ kcal/mole is substituted for the

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84255

Determination of the Formation Heat of Ce_2O_3 by S/076/60/034/009/021/022 the Method of Combustion in the Bomb Calorimeter B015/B056

reaction Ce + 0_2 = Ce 0_2 , so that for the formation heat of Ce $_2$ 0 $_3$ from the elements 2 Ce + 3/2 0_2 = Ce $_2$ 0 $_3$ the value \triangle H $_{298.2}^{\circ}$ = -434.93 t 0.99 kcal/mole was obtained. There are 1 table and 5 references: 1 Soviet, 3 US, and 1 German.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

SUBMITTED: May 16, 1960

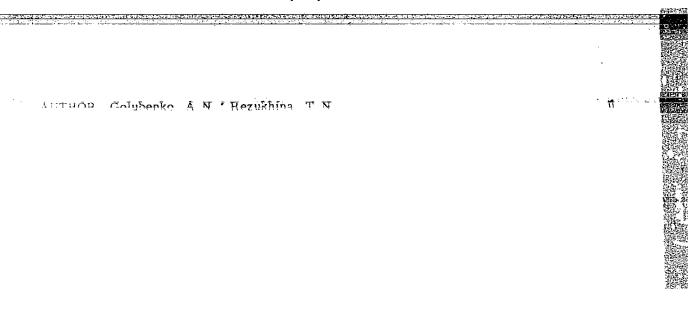


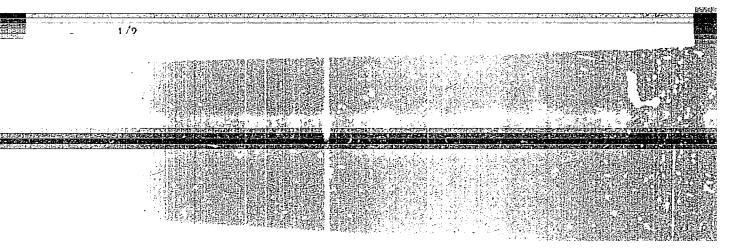
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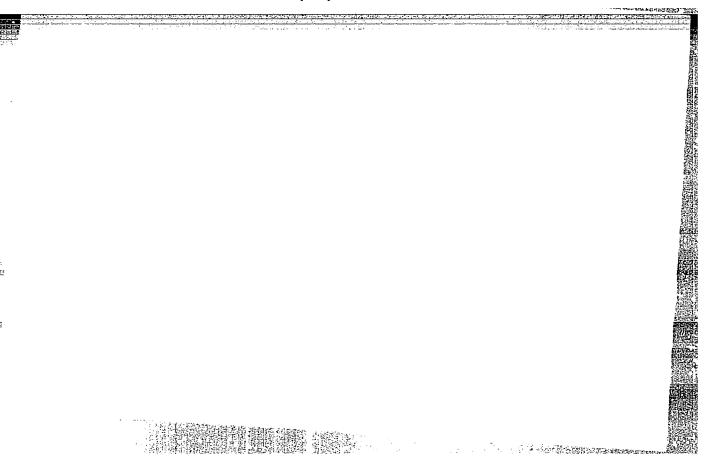
Application of the hydrostatic suspension method to the study of heterogeneous equilibria. Zhur. neorg. khim. 6 no.3:674-678 Mr 161.

(MIRA 14:3)

(Chemical equilbrium) (Reduction, Chemical)







GOLUBENKO, A.N.; USTINOV, O.A.; REZUKHINA, T.N.

Thermodynamic properties of cobalt titanate. Zhur. fiz. khim. 39 no.5:1164-1167 My *65. (MIRA 18:8)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomenosova.

GOLUBENKO, A.N.; REZUKHINA, T.N.

Thermodynamic properties of nickel titenate. Zhur. fiz. khim.
39 no.6:1519-1521 Je '65. (MIRA 18:11)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

Submitted June 19, 1964.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910005-5"

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ACC NR. AT7004081 (N) SOURCE CODE: UR/3244/66/000/004/0097/0100

AUTHOR: Parkhomenko, V. D.; Ganz, S. N.; Golubenko, L. A.; Volodin, I. S.

ORG: Dnepropetrovsk Institute of Chemical Technology (Dnepropetrovskiy khimiko-tekhnologicheskiy institut)

TITLE: Linear expansion and thermal conductivity coefficients of fluoroplastic material

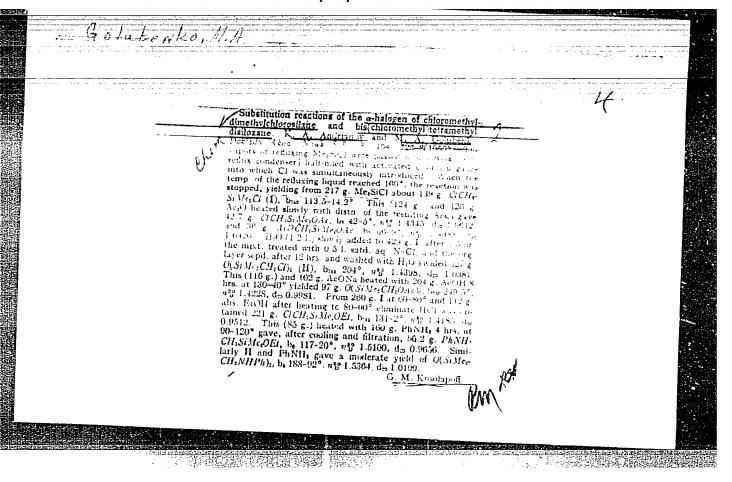
SOURCE: Dnepropetrovsk. Khimiko-tekhnologicheskiy institut. Khimicheskaya tekhnologiya, no. 4, 1966, 97-100

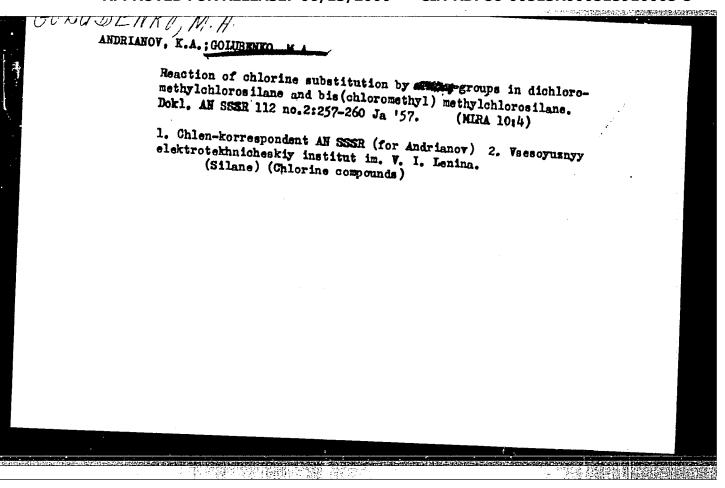
TOPIC TAGS: thermal conduction, thermal expansion, temperature coefficient, filler, linear expansion, fluoroplastic material

ABSTRACT: Expansion and thermal conductivity with BaSo₄, MoS₂, graphite, and coke used as fillers. It was shown that a very complex relationship exists between the linear expansion coefficient and the temperature, type and concentration of a filler. Generally, the increased film concentrations contribute toward lowering of the linear expansion coefficient. Thermal conductivity is determined by the filler.

Card 1/2

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5. 76(18)

69715

SOV/81-59-9-31418

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 9, pp 248-249 (USSR)

AUTHORS:

Andrianov, K.A., Sokolov, N.N., Golubenko, M.A., Shostenko, G.S., Yukina,

Direct Synthesis of Alkyl- and Arylchlorosilanes 1

PERIODICAL: Tr. Vses. elektrotekhn. in-ta, 1958, Nr 62, pp 5-15

ABSTRACT:

TITLE:

In the direct synthesis of methylchlorosilanes the best results were obtained with the molten Si-Cu contact mass [2 - 5% Cu, temperature 270°C, yield (CH₃)_{4-n}SIX_n (I) 94%, content of I (n = 2) 36%]. Instead of pure Si the application of ferrosilicon is possible: at a Fe content of 7 and 24.2% the yield and the content of I (n = 2) is 85 and 31.7%, and 88 and 24.4, respectively. The reaction depends on the physical structure of the contact mass, the reactor design, the gas supply rate, the temperature, etc. The most efficient contact mass is prepared by pouring the Si-Cu melt into cold water. The introduction of Cu₂O (instead of Cu) into the contact mass increases the yield of I (n = 3). CuO is no catalyst. With an increase in the number of organic radicals the heat-resistance of organochlorosilanes decreases. The direct synthesis of ethylchlorosilanes (250 -

Card 1/2

Direct Synthesis of Alkyl- and Arylchlorosilanes

69715

SOV/81-59-9-31418

- 270° C) leads to $(C_2H_5)_2$ SiCl₂ (II), yield 5 - 10%. The addition of Cr (4.2%) to the Si-Cu alloy increases the quantity of II to 24%. SiCl₄ is obtained from CH₂ = CHCl (410 - 420°C) as principal product; the yields of C_2H_3 SiCl₃ and $(C_2H_3)_2$ SiCl₂ are 7.3 and 0.9%, respectively. At passing C_6H_5 Cl through a Si-Cu alloy (420 - 430°C), activated by H₂SO₄, C_6H_5 SiCl₃ is obtained with a yield of 18 - 25%. The modes of the reactions of direct synthesis and the mechanism of the action of a copper catalyst are discussed.

G.M.

Card 2/2

15.8340

S/110/61/000/001/001/023 E194/E455

AUTHORS:

Andrianov, K.A., Corresponding Member AS USSR.

Golubenko, M.A., Engineer

TITLE:

Cast Insulation Based on Epoxide Resins and

Polyorganosiloxanes

PERTODICAL: Vestnik elektropromyshlennosti, 1961, No.1, pp.1-3

This article describes cast insulation which has been developed on the basis of epoxide resins and polyorganosiloxanes. Polyorganosiloxanes have good electrical and thermal but poor mechanical properties; they can, however, be combined with certain organic polymers to form block polymers In the case of polyorganosiloxanes the reactive groups are hydroxyla and esters and in the epoxide resins they are epoxide and hydroxyl groups. Epoxide resin grade 3-37 (E-37) was selected as basis because besides having good casting properties, it has a long hardening Polyorganosiloxanes of various compositions and structures may be derived from silicon-organic monomers - methyl phenyldichlorsilane and dimethyldichlorsilane. The content of hydroxyl groups in the polyorganosiloxane is 1 to 3% and of ethoxyl groups. from 1 to 6%. The epoxide resing are combined with polyorgano-Card 1/4

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Cast Insulation Based on Epoxide Resins and Polyorganosiloxanes

silexanes either in a solvent or in the fluid condition and the resulting compounds contain from 10 to 80% of polyorganosilovanes The resulting compounds are uniform transparent products ranging in colour from light yellow to dark brown. The compounds become liquid at 80 to 100°C and can be maintained at this temperature for a considerable time without change. Their method of use is simple and similar to that of epoxide compounds. Materials that can be used as bardeners for **BK** (EK) compounds are phthaleic or maleic anhydrides, amines, polyalumino-organosiloxanes and others. quantity of hardener depends on the content of epoxide groups in the compound and usually ranges from 5 to 20% by weight. compounds are hardened at a temperature of 100 to 200 C, which usually takes several hours. Then the cost compounds are heattreated at 150 to 200°C for 24 to 48 hours This heat treatment improves the dielectric properties. The physical properties of the compounds depend on the content and structure of the polyorganosiloxanes. Mineral fillers may be used. the content of polyorganosiloxanes the greater the plasticity. The greater Shrinkage of EK compounds containing 20 to 30% of polyorgano-Card 2/4

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Cast Insulation Based on Epoxide Resins and Polyorganosiloxanes

siloxanes is practically the same as that of epoxide resin compounds. If the polyorganosiloxane composition is further increased, the shrinkage increases to 3 to 5% contains 30% polymethylphenylsiloxane and has the following characteristics: Density g/cm² 1.16 - 1.20Specific impact strength kg.cm/cm² - 6 - 10 Tensile strength kg/cm² - Bending strength kg/cm² -- 300 - 500 600 - 800 Compressive strength kg/cm² . 600 800 Martens heat resistance °C: 60 - 65Compound EK-20 was hardened with phthaleic anhydride with subsequent heat-treatment. The electrical properties were determined on standard specimens of 0.9 to 1 mm thick. electric strength ranged from 25 to 30 kV/mm at 20°C to 9 to II kV/mm at 250°C and the permittivity is about 4 factor ranges from 0.001 to 0.003 at 20°C to 0.03 to 0.08 at 130°C the resistivity at 20°C is 1015 and is practically unaligned after Card 3/4

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Cast Insulation Based on Epoxide Resins and Polyorganosiloxanos

five days in water. The dielectric properties mainly depend on those of the epoxide resin grade E-37 used in preparing the compounds. There was little increase in dielectric loss with voltage up to 35 kV. Compound EK-20 with quartz sand as filler had a power factor of 0.013 at 20°C and 0.040 at 130°C. After ageing at 200°C for 600 hours the power factor at 20°C rose from 0.0023 to 0.0032. A tropical humidity test of more than 500 hours EK-20 has been used for impregnating and "potting" non-rotating components operating at temperatures ranging from -60 to -200°C. There are 2 figures, 5 tables and 4 references 3 Soviet and

SUBMITTED: March 11, 1960

Card 4/4

S/191/61/000/011/004/008

5.3700 2209

B110/B147

AUTHORS:

Andrianov, K. A., Golubenko, M. A.

TITLE:

Condensation of methyl-phenyl diethoxy silane with bivalent

phenols

PERIODICAL:

Plasticheskiye massy, no. 11, 1961, 21-22

TEXT: The authors studied the condensation of 27 g (0.127 moles) of methyl-phenyl diethoxy silane (I) (boiling point 60-62°C/2 mm Hg; $n_D^{20} = 1.4700$) with 28.5 g (0.125 moles) of 4,4'-dioxy-diphenyl propane (II) taking place at 150-180°C under separation of C_2H_5 OH. At the beginning, the reaction proceeds quickly. It results in a decrease in the number of functional groups. Heating was carried out for 7 hr in an N_2 flow, and functional groups and viscosity were determined hourly by means of Pinkevich's viscosimeter (0.8 mm capillary). After final heating for 1 hr at 240-250°C, 39 g of a solid, transparent substance (%: Si = 7.15; OH = 1.11; $OC_2H_5 = 2.45$, MW = 1758) was obtained. ($C_{112}H_{116}O_{11}Si_5$, %: Card 1/3

S/191/61/000/011/004/008 B110/B147

Condensation of methyl-phenyl...

Si = 7.92; OH = 0.96; $OC_3H_5 = 2.53$; MW = 1778). The determination of Si, hydroxyl and ethoxyl groups in the polymers permits to infer the following stepwise polycondensation:

 $\begin{array}{c} CH_3 \\ \downarrow \\ x \text{HOROH} + x CH_8 C_8 H_8 S! (OC_2 H_8)_3 \longrightarrow [-OROS! --]_x + 2x C_2 H_5 OH \\ \downarrow \\ C_7 H_5 \\ R = C_8 H_4 C (CH_3)_3 C_8 H_4, C_8 H_4 \end{array}$

In the case of equimolar amounts of the reaction products the molecular weight lies at about 1800. Condensation of 52.5 g (0.25 moles) of I with 27.5 g (0.25 moles) of hydroquinone (III) begins at 110°C and taker place during heating for 7 hr at 160-180°C and for 1 hr at 200-210°C in $\rm N_2$ flow. Here, too, the initial rate with reduction of the functional groups is high. The molecular weight is 1500 at equimolecular ratio of

groups is high. The molecular weight is 1500 at equimolecular ratio of the initial compounds, which corresponds to a polymer with six structured units, as proved by the Si, hydroxyl, and ethoxyl determination. 55 graduates, viscous substance (%: Si = 11.32; OH = 1.21; OC₂H₅ = 3.42; MW = 14.21

Card 2/3

28988 5/191/61/000/011/004/008 B110/B147

Condensation of methyl-phenyl...

was obtained $(C_{80}H_{78}O_{13}Si_6, \%: Si = 11.88; OH = 1.21; OC_2H_5 = 3.18;$ MW = 1416). The viscosity of the condensation products increases only slowly. After heating for 10-15 min at $240-250^{\circ}$ C, the condensation product of I + III changes into a highly viscous polymer. The polymers obtained are soluble in toluene, benzene, chlorobenzene, and amyl acetate. They are being tested as modifying substances for epoxy resins. There are 3 figures and 7 references: 2 Soviet and 5 non-Soviet. The two references to English-language publications read as follows: US Pat. 2584342, 2584344, 2584351; C. A., 46, 4851 (1952); US Pat. 2628215 (1953).

Card 3/3

"APPROVED FOR RELEASE: 06/13/2000 CIA-R

CIA-RDP86-00513R000515910005-5

L 1798-66 EWT(m)/EPF(c)/EWP(j)/T/ETC(m) WW/RM

ACCESSION NR: AP5024498

AUTHOR: Khrustaleva, Ye. N.; Colubenko, M. A.

TITLE: Epoxy compound with improved heat resistance b

SOURCE: Plasticheskiye massy, no. 10, 1965, 8-11

TOPIC TAGS: epoxy plastic, heat resistant plastic, curing agent /EK 54

ABSTRACT: A new epoxy compound designated EK-54 has been developed which shows improved thermal shock resistance and more stable properties than conventional epoxy compounds. The compound is prepared from epoxy resins of various molecular

weights (70 parts EDL) resin and 30 parts ED-5 resin). The hardener used is endic anhydride (cis-3,6-endomethylene-1,2,3,6-tetrahydrophthalic anhydride); the accelerator is dimethylamiline, curing is for 3 hr at 120C. The filler is quartz powder with less than 0.02% iron. The idea of using epoxy resins of various molecular weights and with various epoxy group concentrations is to produce a polymer having an irregular network structure, i.e., a structure containing both regions of high and of low cross-linking density. It was expected that this structure would impart a certain elasticity to the polymer and therefore a greater stability of properties (in particular, improved thermal shock resistance). The lower molecular

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GRIGOR'YEV, Ye.V.; PLATONOV, G.M.; GOLUBENKO, N.I.; LOVCHINOVSKIY, E.V.

Improvement of the drive of a vibrating, self-balancing, and self-centering grizzly. Metallurg 10 no.5:14 My '65.

(MIRA 18:6)

1. Metallurgicheskiy zavod imeni Dzerzhinskogo i zavod-vtuz imeni Arsenicheva.

L 29682-66 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) JH/JD ACC NR. AT6011849 SOURCE CODE: UN/2536/65/000/063/0062/0085 AUTHORS: Golubenko, R. A. (Engineer); Sharov, M. V. (Professor) ORG: Moscow Aviation Technology Institute (Moskovskiy aviatsionnyy tekhnologicheskiy institut) TITLE: Foundry heads with exothermic heating for aluminum alloy casts SOURCE: Moscow. Aviatsionnyy tekhnologicheskiy institut. Trudy, no. 63, 1965. Proizvodstvo otlivok iz legkikh splavov (Production of castings from light alloys), 62-85 metal property, metal crystallization,
TOPIC TAGS: aluminum, aluminum alloy, metal casting/ AL2 aluminum alloy, AL4 aluminum alloy, AL9 aluminum alloy ABSTRACT: The optimum composition of mixtures for exothermic foundry head sleeves used in casting aluminum alloys AL2, AL4, and AL9 was determined. The mechanical and metallographic properties of castings obtained with and without the use of exothermic sleeves were compared, and the results of comparisons are tabulated. Photographs of castings obtained with and without the use of exothermic sleeves as a presented (see Fig. 1). A schematic of the experimental installation is presented. The heat accumulation coefficient of a given exothermic mixture was determined after M. N. Galkin Card 1/3 UDC: 669.716:001.5

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ACC NR: AT6011849	
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Fig. 1. Casting of alloy AL2 without and	
Fig. 1. Casting of alloy and 1 - casting, with the use of heated heads. 1 - casting,	
with the use of heated head. 2 - nonheated head, 3 - heated head.	
Card 2/3	
	STERVISE

tion: Al-lie allo	Col above the	thermic sleeves having ore 40%, wood shared of 100%. It ing of 50 to 60% of tables, 13 figures,	ng the following compositions 5%, refractory of is concluded that the the liquid metal during and 1 equation.	5) 131- 189 188 188
casting operations. SUB CODE: 11/ SUB	M DATE: none/ ORI	G REF: 012/ OTH RE	F: 005	
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Cord 3/3 (C				

IOFFE,L.; IL'INSKIY, N. (g.Vil'nyus); GOLUBENKO, V. (st. Staryy Oskol)

Your helper, friend and adviser. Sov. profsoluzy 18 no.8:7
(MIRA 15:4)

1. Zamestitel' redaktora (azety "Za tyazhelcye mashinostroyeniye", g. Sverdlovsk.
(Wall newspapers) (Journalism, Labor)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910005-5"

GOLUBENKO, V.; KALININ, N., pensioner (Moldavskaya SSR); ULANOV, B., trektorist (Stavropol'skiy kray)

Readers relate, advise and criticize. Sov. profsoiuzy 19 no.6: (MIRA 16:3) 16-17 Mr '63.

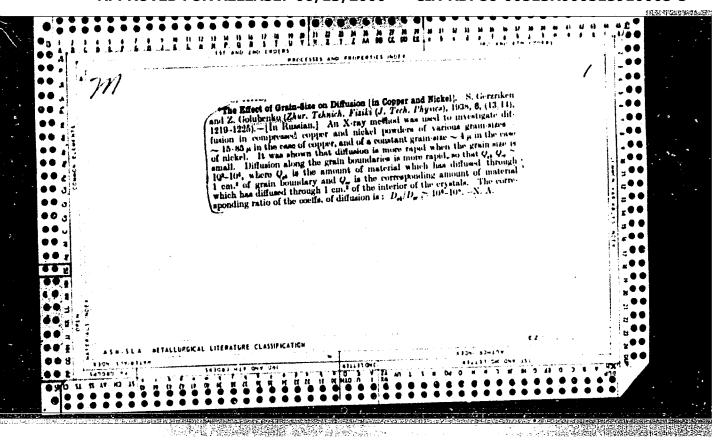
1. Inspektor obshchestvennogo torgovogo otdela pri Staro-Oskol'skom gorodskom sovete, Belgorodskaya obl. (for Golubenko).

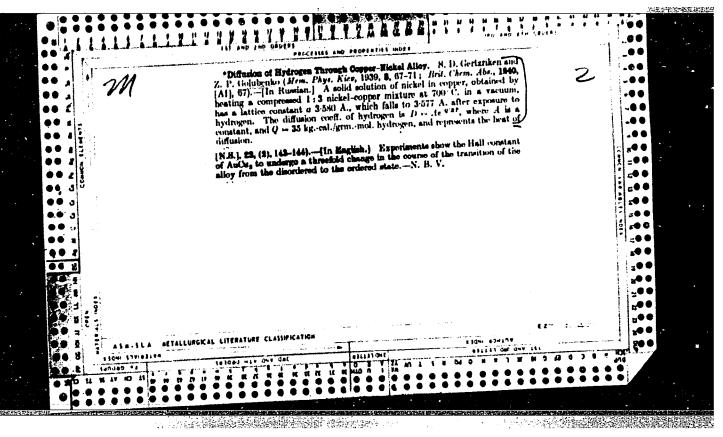
(Labor and laboring classes)

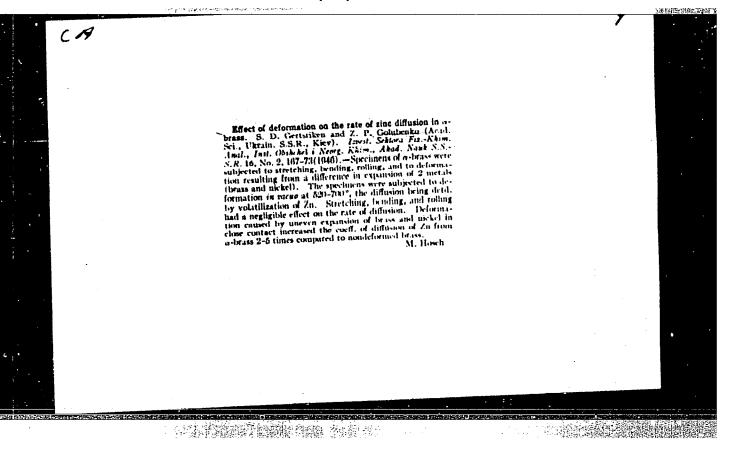
BERTINOV. A.I., doktor tekhn.nauk, prof.; ANDREYEV, V.G., kand.tekhn.nauk; COLUMENKO. Ya.A., inzh. Magnetic field distribution in brushless electrica machines with externally short-circuited magnetic circuits. Elektrotekhnika 36 (MTPA 18:10)

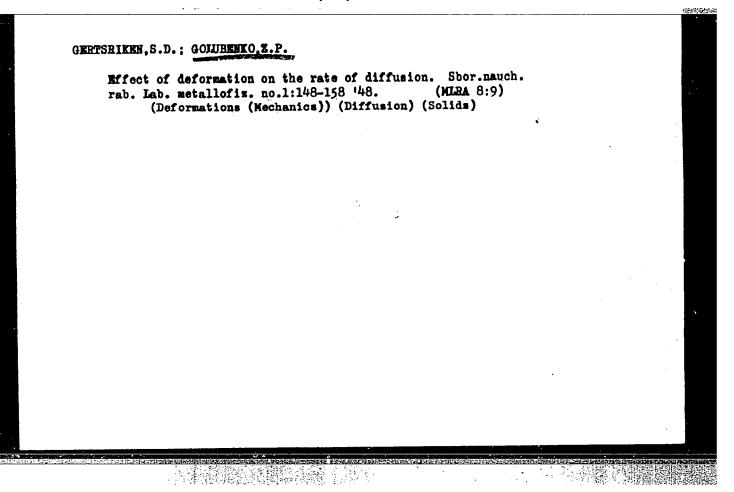
no.10:8-11 0 65.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910005-5"









YEREMENKO, V.N.

POLYAKOVA, V.M.

GOLUBENKO, Z.P.

"The Interaction of Titanium Carbide With Nickel", from the monograph Questions on Power Metallurgy and the Strength of Materials, No III, Institute of Metalloceramics and Special Alloys, Academy of Sciences Ukrainian SSR, Kiev, 1956, 145 pages

Sum. 1287

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515910005-5

COLUBENTO

B-8 USSR/ Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium. Physicochemical Analysis. Phase Transitions.

: Referat Zhur - Khimiya, No 3, 1957, 7478 Abs Jour

Yeremenko, V.N., Polyakova, V.M., and Golubenko, Z.P. Author

: Academy of Sciences USSR Inst : Reaction of Titanium Carbide with Nickel Title

: Sb vopr. poroshkovoy metallurgii i prochnosti materialov Orig Pub

Symposium on Questions on Powder Metallurgy and the

Strength of Materials 7, Vol 3, Kiev, AN SSSR, 1956,

62-72

: Thermic analysis, metallographic, and radiographic me-Abstract

thods were used in establishing the equilibrium diagram for the system Ni-TiC (I) in the nickel-rich region. The alloys of Ni with I give cooling curves of the cutectic type (E = 1280° at 9.3 percent I). The solubility of I in Ni in the solid state was determined. At the

eutectic temperature of 1280° the solubility attains 6.2

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GOLUBENKO, Z.P.

33752

S/021/62/000/002/007/010

D299/D304

18,1255

1530

Yeremenko, V. N., Tret'yachenko, L. O. and Holubenko,

Z.P.

TITLE:

AUTHORS:

On the boundary of the σ -phase in a tantalum-vanadium

system

Akademiya nauk UkrRSR. Dopovidi. no. 2, 1962, 192-194 PERIODICAL:

The tantalum-vanadium alloys were prepared by the method of Yeremenko et al. (Ref. 2: ZhNKh, 5, 2290, 1960). Then they were annealed and tempered at 4 different regimes, ranging from temperatures of 1000 to 1400°C, and lasting from 5 to 200 hours. The ratures of the ophase was determined metallographically. The miboundary of the ophase was determined metallographically. crostructure was determined by means of various etchants, depending on the composition of the alloy. A table shows the phase composition of the alloys at various temperatures. Four types of microstructure are shown in figures. The first shows the structure of a homogeneous B-solid solution alloy; the grain boundaries are sharp and clean. Another figure shows the microstructure of the Card 1/3

S/021/62/000/002/007/010 D299/D304

On the boundary of ...

same alloy after low-temperature annealing; thereby small o-phase formations are noted. Further, an alloy with a considerable amount of o-phase is shown, and (lastly) the microstructure in the region of homogeneous o-phase. The o-phase has very great hardness. The microhardness, determined by means of the device [MT-3 (PMT-3), of the o-phase in alloys containing 32.0 and 41.5 atom% Ta, ranged between 1070 - 1260 kg/mm². The line digrams (of an X-ray picture) of a specimen containing 32.0 atom% Ta is shown. Nearly all the lines of the o-phase were identified by the tetragonal lattice. Calculation of lattice parameters showed that the o-phase in alloys containing 32.0 atm% Ta has parameters a = 6.15 kX and c = 8.85 kX. According to the data of W. Rostoker and A. Yamamoto ((Ref. 1: Trans. Amer. Soc. Metals, 46, 1136, 1954), these parameters are a = 6.104 kX and c = 8.833 kX. A state diagram of the Ta-V system is shown, using data of Ref. 1 (Op.cit.) and the solidus-temperatures found in Ref. 2 (Op.cit.). There are 3 figures, 1 table and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: W. Rostoker, A.

Card 2/3

33752

\$/021/62/000/002/007/010

On the boundary of ...

D299/D304

Yamamoto, Trans. Amer. Soc. Metals, 46, 1136, 1954.

ASSOCIATION: Instytut metalokeramiky i spetssplaviv AN UkrRSR (Institute of Powder Metals and Special Alloys of the AS

UkrRSR)

PRESENTED:

by Academician I. M. Fedorchenko of the AS UkrRSR

SUBMITTED:

July 15, 1961

Card 3/3

CIA-RDP86-00513R000515910005-5" APPROVED FOR RELEASE: 06/13/2000

YEREMENKO, V.N. [IEremenko, V.N.]; TRET'YACHENKO, L.A. [Tret'iachenko, L.O.]; COLUBENKO, Z.P. [Holubenko, Z.P.]

Limits of the existence of the σ -phase in the tantalum-vanadium system. Dop. AN URSR no.2:192-195 '62. (MIRA 15:2)

1. Institut metallokeramiki i spetsial'nykh splavov AN USSR. Predstavleno akademikom AN USSR I.M.Fedorchenko. (Tantalum—Vanadium alloys)

GOLUEENKOV, B.N. (Sverdlovsk)

Heat convection in a rotating round tube in case of a constant temperature gradient. Prikl.mat. i mekh. 21 no.3:439-440 My-Je '57. (MIRA 10:10)

(Heat--Convection)

Heat convection in a rotating round tube associated with a constant temperature gradient (compressible liquid). Prikl. constant i melch. 22 no.6:840-841 N-D '58. (MIHA 11:12) (Heat--Convection)

KOVALLVSKIY, V.P.; CHERNOZHUKOV, K.N.; GOLUBENKOV, V.I.

Exchange of geographical delegations between the U.S.A. and the U.S.S.R. Izv. AN SSSR. Ser. geog. no.6:150-153 N-D '61. (MIRA 14:12)

(United States-Relations (General) with Russia)

(Russia--Relations (General) with the United States)

(Geography)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910005-5"

GOLUBENKOV, V.N.

USSR / PHYSICS SUBJECT

CARD 1 / 2

PA - 1446

AUTHOR

GOLUBENKOV, V.N., SMORODINSKIJ, JA.A.

TITLE

The LAGRANGIAN for the Systems of Uniform Charged Particles.

Zurn.eksp.i teor.fis,31,fasc.2, 330-330 (1956) Issued: 10 / 1956 reviewed: 10 / 1956 PERIODICAL

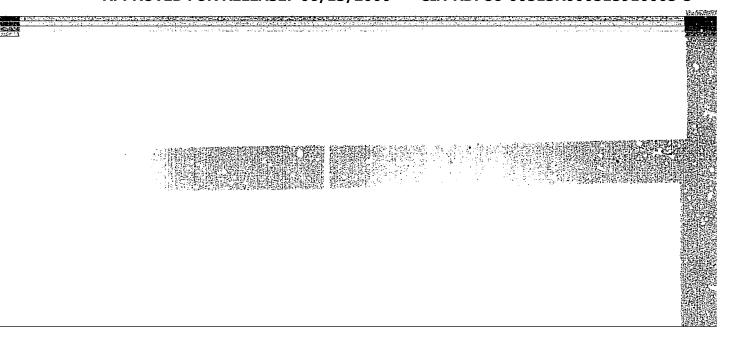
According to C.DARWIN, Phil.Mag. 39, 537, 1920 it is possible to write down the LAGRANGIAN for a system of charged particles with an accuracy extending up to the terms of second order with respect to the ratio (velocity of particles / velocity of light). Here attention is drawn to a possibility of determining the LAGRANGIAN for a system of uniform particles in higher approximation. In a system of uniform particles (or more accurately: having the same ratio between charge and mass) radiation is proportional not to the third but to the fifth power of v/c. Therefore the LAGRANCIAN can be written down for such a system up to terms v4/c4 and the easiest method of computation is that described in the book by LANDAU-LIFSIC.

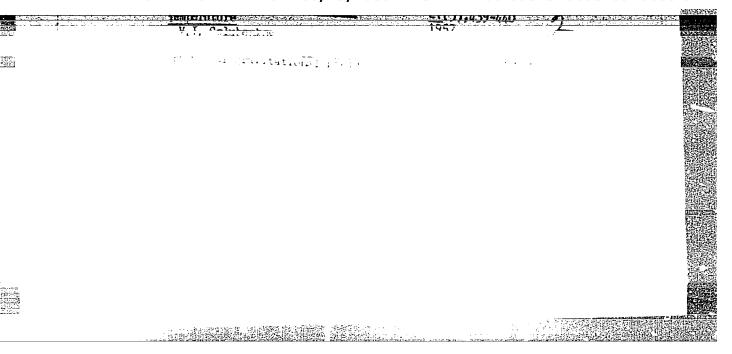
The terms of the third order in the LAGRANGIAN are equal to zero. Computation of the terms of the fourth order leads to the following additional expression added

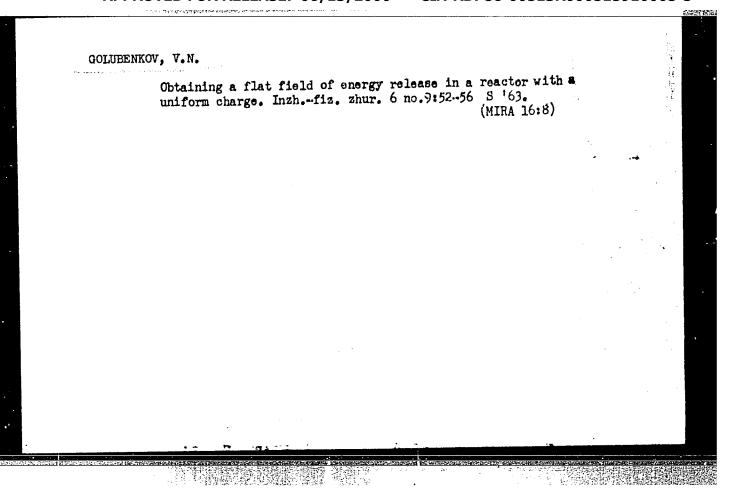
to the LAGRANGIAN of the second order:
$$L^{(4)} = \sum_{a} \frac{m_a v_b^6}{16c^4} + \frac{e^2}{8c^4} \sum_{b>a} \frac{1}{R_{ab}} \left\{ 2(\vec{v}_a \vec{v}_b)^2 - v_a^2 v_b^2 + (\vec{n} \vec{v}_a)^2 v_b^2 + (\vec{n} \vec{v}_b)^2 v_a^2 - (\vec{n} \vec{v}_b)^2 v_b^2 + (\vec{n} \vec{v}_b)^2 v_b^2 +$$

$$-3(\overrightarrow{n}\overrightarrow{v}_{a})^{2}(\overrightarrow{n}\overrightarrow{v}_{b})^{2} + \frac{e^{2}}{8c^{4}} \sum_{b>a} \left\{ 2(\overrightarrow{n}\overrightarrow{v}_{a})(\overrightarrow{v}_{a}\overrightarrow{v}_{a}) - 2(\overrightarrow{n}\overrightarrow{v}_{b})(\overrightarrow{v}_{b}\overrightarrow{v}_{a}) - 2(\overrightarrow{n}\overrightarrow{v}_{b})(\overrightarrow{v}_{b})(\overrightarrow{v}_{b})(\overrightarrow{v}_{b}) - 2(\overrightarrow{n}\overrightarrow{v}_{b})(\overrightarrow{v}_{b})(\overrightarrow{v}_{b}) - 2(\overrightarrow{n}\overrightarrow{v}_{b})(\overrightarrow{v}_{b})(\overrightarrow{v}_{b})(\overrightarrow{v}_{b})(\overrightarrow{v}_{b})(\overrightarrow{v}_{b}) - 2(\overrightarrow{n}\overrightarrow{v}_{b})(\overrightarrow{v}_{b$$

Zurn.eksp.i teor.fis, 31, fasc. 2, 330-330 (1956) CARD 2 / 2 PA - 1446 $-v_{a}^{2}(\vec{n}\vec{v}_{b})+v_{b}^{2}(\vec{n}\vec{v}_{a})+(\vec{n}\vec{v}_{a})+(\vec{n}\vec{v}_{a})^{2}(\vec{n}\vec{v}_{b})-(\vec{n}\vec{v}_{b})^{2}(\vec{n}\vec{v}_{a})-3R_{ab}(\vec{n}_{a}\vec{v}_{b}+R_{ab}(\vec{n}\vec{v}_{b})(\vec{n}\vec{v}_{a}))$ Here \vec{n} denotes the unit vector of the direction R_{ab} . In the course of the process of computation the expressions representing the total derivation with respect to time were omitted. In accordance with the equation of motion obtained by the total neglect of retarding potentials (i.e. from the LAGRANGIAN of zero-th approximation), accelerations may here be expressed by the coordinates and velocities of the charges. In the case of the most simple example of two charges the following is therefore true: $\vec{v}_1 = (e^2/m)\vec{n}/R^2$; $\vec{v}_2 = -(e^2/m)\vec{n}/R^2$. After insertion into the above formula it follows that: $L^{(4)} = -mv_1^6 / 16c^4 - mv_2^6 / 16c^4 + \left(e^2 / 8c^4\right) \left\{ (1/R) \left[2(\vec{v_1}\vec{v_2})^2 - v_1^2 v_2^2 + (\vec{n} \vec{v_1})^2 v_2^2 + (\vec{n} \vec{v_2})^2 v_1^2 - 3(\vec{n}\vec{v_1})^2 (\vec{n}\vec{v_2})^2 \right] + (3e^2/m) \left[(\vec{n}\vec{v_1})^3 + (\vec{n}\vec{v_2})^2 \right] - (e^2/m) (v_1^2 + v_2^2) + 2e^4/m^2 R^3 \right\}.$ This LAGARANGIAN of 2 uniform charges, which is accurate up to the fourth order, can be used for the investigation of relativistic corrections on the occasion of the scattering of fast protons and for the generalization of BREIT'S well-known formula for the interaction between two electrons. BREIT'S formula was computed by MAKSIMOV in the fourth order, but the results are too voluminous to be mentioned here. The above is a slightly abridged translation of this short report. INSTITUTION:







BOCATYREV, R.T.; VORONOV, Yu.A.; GOLUBENKOV, V.S.; GULYAYEV, P.I.; SHLIPPENBAKH, N.Ya.

Parabiotic nature of the refractory phase of a single giant nerve fiber in a squid. Vest. LGU 19 no.3:163-167 '64. (MIRA 17:3)

DECTYAREV, L.S.; GANYUK, L.N.; GOLUBENKOVA, A.M.; BRODSKIY, A.I.

Electron paramagnetic resonance spectra and the transmission of the influence of substituents in anion radicals of paranitrodiphenyls. Dokl. AN SSSR 157 no.6:1406-1409 Ag '64. (MIRA 17:9)

1. Institut fizicheskoy khimii im. L.V. Piserzhevskogo AN UkrSSSR. 2. Chlen-korrespondent AN SSSR (for Brodskiy).

GOLUBENKOVA, L.I.

678.5 Hardening of PP

Dokl.Akad.Nauk. 93(2),311-514

Index Aeronauticus

March 1954 : Plastics

Sci-Res. Int. Plastics int Phys- Chem Instrin. Kaypor

- Slonimskii, V.A. L.I. Golubenkova U.S.S.R. The effect of degree of condensation and applied compressive stress on the vitrification temperature and true viscosity of resols, and on their high deformability shows them to be composed of rigid chains of low H.W., which increases somewhat during hardening. The incomplete reversibility of the change of viscosity under load indicates that compression can promote hardening. Resitol can be very considerably and reversibly deformed though recovery is often slow. The behaviour of resitol and its gels in contact with various solvents indicates them to have a rather open cross-linked structure, whose bonds have a certain lability around 100°U since the resins dissolve in solvents on heating and the solutions gel on standing. Fine particulate resitols dissolve completely whereas coarser material does not, showing that dissolution and further condensation are concurrent processes. Resites also have a spatial structure, mainly held together by labile bonds, but with small proportion of stronger ones (high-elasticity at

high temporatures, and insolubility). The heat of formation of the labily aggregates is deduced from the variation of the equilibrium elasticity modulus with temperature (120-20000)

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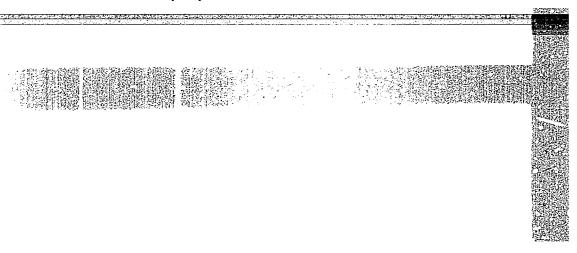
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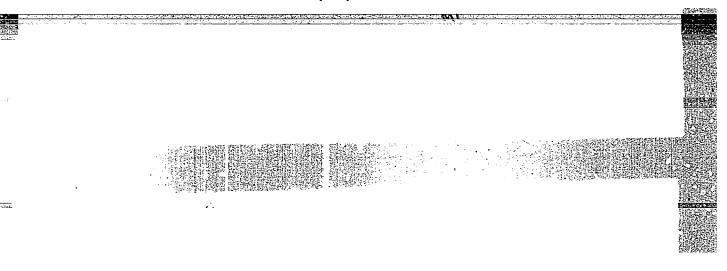
GOLUBENKOVA, L, I.

"An Investigation of the Process of Hardening of Fhenol-Formaldehyde Resol Resins." Cand Chem Sci, Sci Res Physico-chemical Inst imeni L. Ya. Karpov, 22 Nov 54. (VM, 11 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55







COLUBBIROYA, i. T., KOVARSKAYA, B. M., AKUTIK, M., W. ONG SLAMBUINSKIY, CL

"Epoxide Resins and Thermomechanical properties," a paper presented at the 9th Congress on the **Chemistry** and Physics of High Polymers, 28 Jan-2 Feb 57, Moscow, Plastics Research Inst.

B-3,084,395

GOLUBENKOVA, L.I. .

"A Mechanical Method for the Production of New Types of Polymers," by V. A. Kargin, B. M. Kovarskaya, L. I. Golubenkova, M. A. Akutin, and G. L. Slonimskiy, Khimicheskaya Promyshlennost', No 2, Mar 57, pp 77-79

Equipment similar to rubber masticators has been designed for breaking down plastics by the exertion of mechanical force, so that the fractional parts of chain molecules which are then formed and which possess the properties of free radicals may react with other chain molecules or parts of chain molecules, forming block polymers, chain molecules or parts of chain molecules, forming block polymers or combine with monomers, forming grafted polymers. The equipment in question consists of two circular corrugated plates between which the material is triturated when the lower plate is rotated against the material is triturated when the lower plate is rotated against the upper plate that remains stationary. Two different types of plates upper plate that remains stationary. Two different types of plates are described: one has a rectangular groove with the contour of an are described: one has a rectangular groove with the contour of an archimedes spiral and a depth gradient and the other a groove which possesses the same contour but exhibits a uniform depth and is cut in such a manner that a ridge with a profile corresponding to that of a whitworth screw winding results.

SUM. 1391

MOVII, L.J.

The first type of plate was found to be best suited for the copolymerization of low-molecular brittle resins with elastomers and the second for combining different types of elastomers with each other. By applying the method of mechanical disintegration, block polymers representing combinations in different proportions of nitrile rubber with phenol-formaldehyde novolacs, epoxy-resins, and refined coal-tar pitch were obtained. The time required for the experimental preparation of the block polymers was 4-5 minutes. Samples weighing 10-20 g were used, and the mechanical disintegration was carried out in an atmosphere of inert gas.

The authors conclude on the basis of the results described by them that the mechanical method of producing block polymers and grafted polymers is superior to chemical methods. They add that an apparatus for the continuous production of block polymers and grafted polymers by the mechanical method is being developed at the Scientific Research Institute of Plastics, and that the availability of this apparatus will make possible the industrial production of such polymers by the method described.

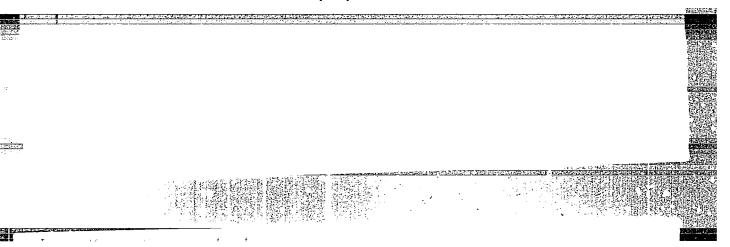
SUM. 1391

GOLUBENKOVA, L.I.

The authors of the article explain the significance of the work on block polymers as follows:

"At present requirements of a complex nature are put in various branches of the industry to products made of high-molecular compounds. These requirements comprise superior heat stability, improved mechanical and dielectric characteristics, stability to the action of water, chemical stability, retention of the original characteristics after prolonged use of the products, and stability at low temperatures combined with a resistance to the action of gasoline and oil. However, none of the available types of polymers can completely satisfy all the requirements mentioned above. For that reason it has become necessary to combine different types of polymers in such a manner that the materials resulting from their interaction will possess all the desired properties." (U)

54M.1391



KARGIN, V.A., akademik; KOVARSKAYA, B.M.; GOLIBENKOVA, L.I.; AKUTIN, M.S.; SIONIMSKIY, G.L.

Block-copolymer from phenol-formaldehyde resins and nitrile rubber. Dokl. AN SSSR 112 no.3:485-486 Ja '57. (MCRA 10:4)

1. Gosudarstvennyy nauchno-issledovatel skiy i proyektnyy institut plasticheskikh mass.

(Nitrile rubbers) (Phenol condensation products)

GOLUBENKOVA, L.I.

69-20-1-5/20

Golubenkova, L.I., Kovarskaya, B.M., Akutin, M.S., Slonimskiy,

AUTHORS:

Thermomechanical Investigation of Epoxide Resins (Termomekha-G.L.

nicheskoye issledovaniye epoksidnykh smol)

PERIODICAL: Kolloidnyy Zhurnal, 1958, Vol. XX, # 1, pp 34-37 (USSR) TITLE:

ABSTRACT:

Epoxide resins may be either thermoplastic or thermoreactive, depending on the initial diphenyl propane and epichlorohydrine components. Thermoreactivity begins at a molar ratio of 1: 1.5 of the initial components and at a further decrease of the epichlorohydrine content. The thermomechanical curves of the initial resins were obtained on a dynamometric scale. The solidified specimens were measured on a consistemeter. Epoxide resins are low-molecular, i.e. they pass from the vitrified condition into a viscous-fluid one. The vitrification temperacondition into a viscous-liture one. The vitrilication tempe ture varies between 5-50°C. Solidified resins are prepared by using a hardening agent, polyethylenepolyamine, for 30-45 days. The reduction of the epichlorohydrine content to a ratio of 1: 1.2 and a 10-hour heating at 200°C produces the resin type ED-15, which is elastic at increased temperatures. Resins with lower numbers of epoxide groups are more elastic

card 1/2

GOLUBENKOVA, L.I.; KOVARSKAYA, B.M.; LEVANTOVSKAYA, I.I.; AKUTIN, M.S.

Mechanism of the hardening of epoxy resins with amines. Vysokom. soed. 1 no.1:103-109 Ja 159. (MIRA 12:9)

1. Nauchno-issledovatel'skiy i proyektnyy institut plasticheskikh mass.

(Resins, Synthetic) (Amines)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910005-5"

Transferration of the second s

GOLUBENKOVA, L.I.; KOVARSKAYA, B.M.; AKUTIN, M.S.

Thermomechanical investigation of epoxy rosins. Vysokom.soed.

1 no.1:109-113 Ja '59. (MIRA 12:9)

1. Nauchno-issledovatel'skiy i proyektnyy institut plasticheskikh mass.

(Resins, Synthetic)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910005-5"

KOVARSKAYA, B.M.; GOLUBENKOVA, L.I.: AKUTIN, M.S.; LEVANTOVSKAYA, I.I.

Preparation of some block polymers and investigation of their properties. Vysokom.soed. 1 no.7:1042-1047 J1 159. (MIRA 12:11)

1. Nauchno-issledovatel skiy institut plasticheskikh mass. (Polymers)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910005-5"

NEYMAN, M.B.; COLUBENKOVA, L.I.; KOVARSKAYA, B.M.; STRIZHKOVA, A.S.;
LEVARTOVSKAYA, I.I.; AKUTIN, M.S.; MOISEYEV, V.D.

Thermal degradation of condensation resins. Part 1: Thermal degradation of epoxide resing. Vysokom.soed. 1 no.10:
(MIRA 13:3)

1. Nauchno-issledovatel'skiy institut plastmass, Moskva.
(Resins, Synthetic)

FRASE I BOOK EXPLOITATION SUV/4964 symposium on macromolecular chemistry. Moscow,	Merhantsodayy aimpozium po makromolekulyarnoy khimii SSSN, Seakrai, 14-18 iyunya 1960 g.; dokindy i avtorefersty. Seatsiya. III. (Intermational Symposium on Macromolecular Chamistry Section III. (Non-14-15, 1960; Papers and Summaries) Section III. (Non-04-15, 1960; Papers and Summaries) Section III. (Non-04, Izd-vo AM SSSR, 1960)	 Kashina. Ency: The International Union of Pure and Applied Commission on Macromolecular Chemistry. Now! definition of the Chemistry of the Commission of the Commission of the Chemistry of	marization reactions and the synthesis of high molecular compounds. Source and the synthesis of high molecular compounds. MAGE: This is Section III of a miltivolume work containing pupers on macromolecular chemistry. The articles in the protect of account of the synthesis of special-purpose polymerization reactions, the synthesis of special-purpose polymers, e.g., ion exclosurate shains, maniconhuctor anterials, etc., nethods of catchings estimate shains, maniconhuctors anterials, etc., nethods of anterious factors of high molecular materials, and the effects of high molecular materials. Magement of the synthesis of polymerization and the degradation of Magements o	Turiver, V. B. A. H. Finvedukov, and S. S. Medveder (USSH), The Effect of Portio Aid and Formates on the 364 Cardetton of Extreosthons and Extreosthons and Extreosthons and Extreosthons on Standard (USSH), Study of the Effect of Some Organic and Organetal Compounds on 372 the Thermal Degradation of Polystayl Chloride.	Wichterla, 0., E. Sittler, and P. Čefelin (Czechoslovakia). Degradation of folly-C-Caprolactian as a Result of Ex- Shanga Reaction Between Amide Bonds Nukera, M. J. Eshivor, and M. Jelfack (Czechoslovakia). Heutralitation of Residual Catalyst in Polydisethylsiloxne; Effect of Thermal Meutralitation on the Thermal Stability of Shanga		4 7	Medification of the Properties of Cellulose by Graffing 344 3
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GOLUBENKOVA, L.I.; SHABADASH, A.N.; NIKONOVA, S.N.; AKUTIN, M.S.

Grafting of polymers to solid surfaces. Part 1: Study of the interaction of organosilicon compounds with glass based on infrared absorption spectra. Vysokom.soed. 4 no.9:1354-1360 S 162. (MIRA 15:11)

l. Nauchno-issledovatel'skiy institut plasticheskikh

(Glass) (Silicon organic compounds)

GOLUBENKOVA, L.t.; DEMERHINA, Ye.M.

Adhesion of epoxy resins to glass wool. Plast. massy no.10:35-36
(65.

(MIRA 18:10)

NIKONOVA, S.N.; GOILJEENKOVA, L.I.; SHABADASH, A.N.; AKUTIN, M.S.

Reaction of organosilicon compounds with glass fibers. Plast.
massy no.2:27-29 '66. (MIRA 19:2)

1. Submitted Jan. 12, 1965.

L 22001-66 ENT(m)/EMP(v)/EMP(j)/T/ETC(m)-6 LIP(c) W/RH

ACCESSION NR: AP5024505 UR/0191/65/000/010/0035/0036
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AUTHOR: Golubenkova, L. I.; Demekhina, Ye. M. 49

T.TLE: Adhesion of epoxy resins to glass cloth

SOURCE: Plasticheskiye massy, no. 10, 1965, 35-36

TOPIC TAGS: fiberglass, glass cloth, adhesion, epoxy plastic, heat resistance, resin/ED-5 resin, TS 8-3-250 glass cloth

ABSTRACT: The adhesion of epoxy resins to glass cloth was exemined in this study using ED-5 resin and TS 8/3-250 glass cloth lubricated with paraffin. Adhesion of the resin to the cloth depends on curing conditions and the amount of curing agent in the adhesive. The resin-glass bonding was stronger with elevated temperature cures (160C for 1 hour) than with a 24 hour room temperature cure. Curing of the epoxy predominated as the amount of polyethylenepolyamine curing agent was increased from 8 to 15% on the weight of the resin. Reaction between

the epoxide group and the surface of the glass cloth was enhanced and bond strength was increased as the amount of curing agent was reduced to about 4%.

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2.

Below this the cohesive strength of the resin is reduced, leading to rupture. Tests were run using ED-5 with different amount of resin DEG-1 based on diethylene glycol and epichlorohydrin, using triethanolamine titanate as the curing agent. Resin-glass bond strength increased as DEG-1 was increased to 50%. However, the strength of the fiberglass subjected to static flex testing decreased as the amount of DEG-1 was increased. Preliminary coating of glass cloth with resin with subsequent application of a second coat of resin reduced the strength of the fiberglass in comparison to fiberglass made by the customary one-application method. The increase in the heat resistance of fiberglass based on epery resins is associated with the reaction of the resin with the glass surface. Orig. art. has 3 figures

ASSOCIATION: None

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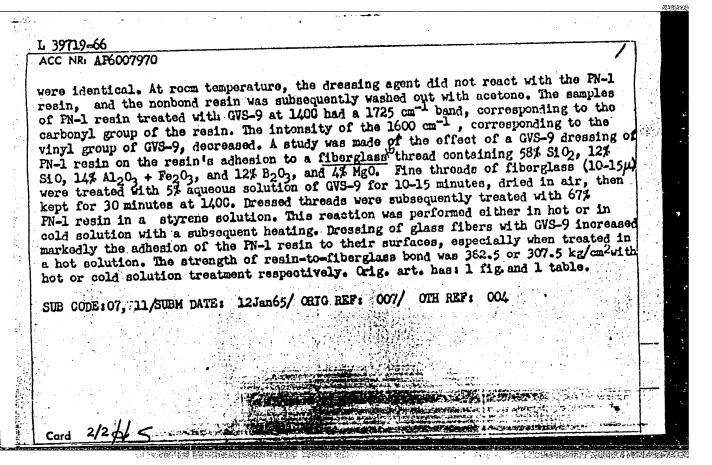
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SOURCE CODE: UR/0191/66/000/002/0027/0029 EWT(m)/T/EWF(j)/ETC(m) L 14514-66 ACC NRI AP6005950 AUTHOR: Nikonova, S. N.; Golubenkova, L. I.; Shabadash, A. N.; Akutin, M. S. ORG: none TITLE: Reaction of organosilicon compounds with glass fiber SOURCE: Plasticheskiye massy, no. 2, 1966, 27-29 TOPIC TAGS: glass fiber, organosilicon compound grafting, coupling agent ABSTRACT: A study has been made of the reaction of organosilicon compounds with glass fiber used in the manufacture of glass-reinforced plastics 5 An IR-spectroscopic method developed by the authors and involving immersion of the fiber in a special liquid, whose refractive index approaches that of glass, was used for direct identification of groups of organosilicon compounds grafted on the glass surface. The experiments were conducted with alkali and alkali-free glass fibers. The fiber was treated for 2 hr with the organosilicon compound or its organic analog. The untreated portion of the coupling agent was then removed with a polar and a nonpolar solvent. Treatment of glass fibers with trimethylchlorosilane (I) or trimethylsilanol (II) resulted in the grafting of trimethylsilyl groups on the glass surface. The degree of grafting was higher when the glass was treated with I. Weak alkalis removed some of the trimethylsilyl groups by leaching the glass. Organosilicon compounds containing no reactive groups, trimethylchloromethane, and tri-678.84:678.06:677.521

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L 39719-66 EWT(m)/EMF(j)/T/EWP(v) RM/WW/OD-SOURCE CODE: UR/0191/66/000/003/0045/0047 ACC NR. AP6007970 AUTHOR: Nikonova, S. M.; Golubenkova, L. I.; Shabadash, A. N.; ORG: none TITLE: Reaction of dressing agent GVS-9 with binding agent FN-SOURCE: Plasticheskiye massy, no. 3, 1966, 45-47 TOPIC TAGS: organosilicon compound, polyester plastic, adhesion, spectrographic analysis ABSTRACT: The author studied the nature of bonds formed between the organosilicon dressing GVS-9 and the acid polyester resin PN-1, which was obtained from diethyleneglycol and maleic and phthalic anhydrides in a 1:1;0.5 ratio. A 50% aqueous solution of GVS-9 (here the ester is converted into CH2:CHSi(CH)3) was heated for 1 hr at 1400 until an infusible and insoluble product formed. The product obtained was separated, powdered, and mixed with polyaster resin PN-1. One part of the mixture was kept for 2 hr at room temperature and the second part at 1400. To prevent oxidation, the mixture was heated in a N₂ atmosphere. The samples were washed with acetone in a Soxhlet apparatus for 6 hr and subsequently compressed to tablets with KBr for an infrared spectroscopic study. The spectra of the thermally hydrolized GVS-9 solutions and of the mixture of GVS-9 with PN-1 resin, which were processed at room temperature, 678.844678.744.4 UDC: 1/2 Card



VANKHAREN, V.D.; CHISTYAKOVA, A.M.; GOLUBENKOVA, M.D.

Hygienic investigation of the nutrition of the Donets coal basin miners underground. Vep. pit. 24 no.1:28-31 Ja-F 165.
(MIRA 18:9)

1. Kafedra gigiyeny pitaniya (zav. dotsent A.M. Chistyakova) Donetskogo meditsinskogo instituts i Gorlevskoy gerodskoy sanitarno-epidemiologicheskoy stanzali.

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KONOVALOV, S.A.; GOLUBENKOVA, N.I.; BORODKINA, V.V.

Use of phosphorus and transformation of its various forms in yeasts during fermentation, Trudy TSNIISP no. 8;11-23
(MIRA 14;1)

(Phosphorus) (Yeast) (Fermentation)